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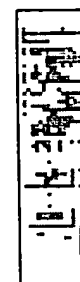
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KIMURA KUNIO;  
YAMAUCHI HIROSHI;  
INADA YOSHIAKI;  
TAKEDA HIDEYUKI;  
KAWAMURA KOICHI;**Assignee: **AGENCY OF IND SCIENCE & TECHNOLOGY  
SUMITOMO SEIKA CHEM CO LTD**  
[News, Profiles, Stocks and More about this company](#)Published / Filed: **July 25, 1995 / Dec. 27, 1993**Application Number: **JP1993000333740**IPC Code: **C04B 28/02; C04B 18/24; E04C 2/04; C04B 28/02;  
C04B 103/46; C04B 111/30;**ECLA Code: **C04B28/02;**Priority Number: **Dec. 27, 1993 JP1993000333740**Abstract: **Purpose:** To obtain the subject artificial wood excellent in processability and humidity conditioning functions by blending cement with respective specific amounts of chaff powder, a water-soluble polymeric compound, an inorganic lightweight aggregate and a fibrous reinforcing material, regulating the moisture content,

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carrying out the extrusion molding and hardening the resultant molding.

**Constitution:** This hydraulic cement mortar-based artificial wood is obtained by blending (A) 100 pts.wt. cement with (B) 15-300 pts.wt. chaff powder, (C) 0.3-10 pts.wt. water-soluble polymeric compound (e.g. methyl cellulose), (D) 10-200wt. inorganic lightweight aggregate (e.g. pumiceous sand balloon and (E) 0.5-20 pts.wt. fibrous reinforcing material (e.g. glass fiber), regulating the moisture content to 30-50wt.%, then carrying out the extrusion molding of the prepared composition into a desired shape and subsequently hardening the resultant molding. The obtained artificial wood is excellent in nailability, wood screw holding power, sawing properties, etc., and can suitably be used as a wood substitute in the field of building materials consisting essentially of an outer wall material.  
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## PATENT ABSTRACTS OF JAPAN

(21) Application number: **05333740**(51) Intl. Cl.: **C04B 28/02 C04B  
E04C 2/04**(22) Application date: **27.12.93**

<p>(30) Priority:</p> <p>(43) Date of application publication: <b>25.07.95</b></p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: <b>AGENCY OF I SCIENCE &amp; T  SUMITOMO S CHEM CO LT</b></p> <p>(72) Inventor: <b>KAMIO TSUKA KIMURA KUNI YAMAUCHI HI INADA YOSHI/ TAKEDA HIDE KAWAMURA K</b></p> <p>(74) Representative:</p>
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**(54) HYDRAULIC  
CEMENT MORTAR-  
BASED ARTIFICIAL  
WOOD**

(57) Abstract:

PURPOSE: To obtain the subject artificial wood excellent in processability and humidity conditioning functions by blending

cement with respective specific amounts of chaff powder, a water-soluble polymeric compound, an inorganic lightweight aggregate and a fibrous reinforcing material, regulating the moisture content, carrying out the extrusion molding and hardening the resultant molding.

CONSTITUTION: This hydraulic cement mortar-based artificial wood is obtained by blending (A) 100 pts.wt. cement with (B) 15-300 pts.wt. chaff powder, (C) 0.3-10 pts.wt. water-soluble polymeric compound (e.g. methyl cellulose), (D) 10-200wt. inorganic lightweight aggregate (e.g. pumiceous sand balloon and (E) 0.5-20 pts.wt. fibrous reinforcing material (e.g. glass fiber), regulating the moisture content to 30-50wt.%, then carrying out the extrusion molding of the prepared composition into a desired shape and subsequently hardening the resultant molding. The obtained artificial wood is excellent in nailability, wood screw holding power, sawing

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